

ISM-AR0132AT

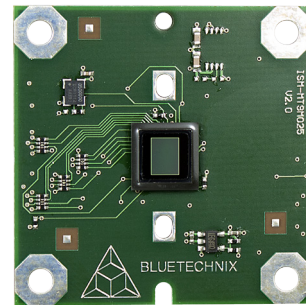
Image Sensor Module



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Embedding Ideas

The ISM-AR0132AT integrates Aptinas AR0132AT image sensor, oscillator, voltage control and a M12 or CS-mount lens-holder to support numerous M12 or CS-mount lenses at a size of 40 x 40mm.

The AR0132AT CMOS digital image sensor from Aptina has an active-pixel-array of 1280H x 960V (1.2MP). This sensor can capture in either liner or high-dynamic-range (HDR) mode with rolling-shutter readout. The sensor can be programmed via a simple I²C interface and offers some sophisticated camera functions such as auto exposure control, windowing and both video and single frame modes. The sensor is able to capture in continuous mode for videos or single frame mode for clear sharp images for both low light and high dynamic range scenes.



ISM-AR0132AT top view

Further information at www.bluetechnix.com/goto/ism-ar0132at

Feature Overview

OPTICAL FORMAT	1/3-inch (6mm)
ACTIVE ARRAY	1280H x 960V (1.2MP)
CHROMA*	Color, Mono, RCCC
FPS	60fps @ Full resolution 720p
SHUTTER TYPE	Electronic Rolling Shutter
DATA RATE	27Mb/s
INPUT CLOCK	50MHz
OUTPUT SERIAL	HiSPI 12, 14 or 20 bit on request
OUTPUT PARALLEL	12 bit
SUPPLY VOLTAGE	2.5V - 3.1V
BLT-ISM-CONNECTOR	Yes
OPERATING TEMPERATURE	-40°C to +85°C
SUPPORTED LENS MOUNT	CS Mount, M12
DIMENSIONS	40 x 40mm

*depends on version - see ordering information

Ordering Information

Order No.	Info
100-3212-1	ISM-AR0132AT-Mono
100-3213-1	ISM-AR0132AT-Color
100-3214-1	ISM-AR0132AT-RCCC

Applications

- » Automotive
- » Stereo Vision
- » Surround View
- » Machine Vision
- » Object Recognition

BLUETECHNIX GmbH
Waidhausenstraße 3/19 | 1140 Wien, Austria
P +43 (1) 9142091 x 0 | F +43 (1) 9142091 x 99
www.bluetechnix.com | office@bluetechnix.com